

Appl. No. 10/785,995
Amendment filed May 21, 2007
Response to Office Action mailed December 19, 2006

Docket No. MEI-102

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-18 (Cancelled)

19. (Currently Amended) A computer system, comprising:

an access history management device and a plurality of information resource management devices coupled to a storage device and to a client computer, wherein the information resource management devices record access requests for obtaining data received from one of the client computers and the information resource management devices as access history information, when the information resource management devices send data to the client computers and the information resource management devices, the access history management device collects the access history information from the plurality of the information resource management devices and the access history information indicates a source of an access request, the access history management device further collects user information for identifying a user from user ID information who has sent an access request as a part of said access history.

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the access history management device ~~furth~~er determines, on the basis of the source of an access request in the access history information, if data is requested with a user ID from a first one of the information resource management devices other than an information access resource management device which is coupled to one of the storage devices storing the requested data, and after an access request of the requested data is sent with said user ID from a second one of the information resource management devices, and sends to an information access management device an instruction to copy the requested data based on the determination,

and

any of said information resource management devices that is coupled to a storage device that stores the requested data and receives the instruction to copy sends the requested data to said first information resource management device to store the requested data on another one of the storage devices which is coupled to the first information resource management device.

20. (Currently Amended) The computer system according to claim 19, wherein if the data of the instruction to copy is not used by the client computer that is coupled directly to the information resource management device that receives the instruction to copy, the access history management device sends an instruction for data migration.

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21. (Currently Amended) The computer system according to claim 19, wherein if the data of the instruction to copy is used by the client computer that is coupled directly to the ~~second~~an information resource management device, the access history management device sends an instruction for data replication.

22. (Previously Presented) The computer system according to claim 19, wherein said access history management device collects the access history information from the plurality of the information resource management devices at a predetermined timing that includes timing at predetermined intervals set in advance.

23. (Previously Presented) The computer system according to claim 19, wherein said access history management device collects the access history information from the plurality of the information resource management devices at a predetermined timing that includes an arbitrary timing depending on said information resource management devices.

24. (Canceled)

25. (Currently Amended) The computer system according to claim ~~19~~24, wherein said ~~change-copy~~ instruction is sent by said instruction sending unit to said second ~~an~~ information resource management device ~~controlling said storage device having stored said one or more information resources before the change.~~

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26. (Currently Amended) The computer system according to claim 25, wherein said copy instruction is sent to any of said information resource management storage devices before the change coupled to one of the storage devices storing the data of the instruction to copy which has the shortest network distance from said first information resource management devicea storage device after the change.

27. (Canceled)

28. (Currently Amended) A method of managing a plurality of information resource management devices coupled to a storage device and to a client computer, comprising the steps of:

recording an access request for obtaining data received from one of a client computer and other information resource management device as access history information, when the information resource management device sends data to the one of the client computer and the other information resource management device,

collecting the access history information from the plurality of the information resource management devices including access history information that indicates a source of an access request by a user ID,

determining, on the basis of the source of the access request in the access history information, if data requested with a user ID is requested from an a first one of the

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information resource management devices other than an information ~~resource access~~
management device which is coupled to a storage device storing the requested data, after an
access request of the requested data is sent using said user ID from a second one of the
information resource management devices, and sending ~~to the information access~~
~~management device~~ an instruction to copy the requested data according to results of the
determining; and

receiving the instruction to copy by any of the information resource management
devices which is coupled to a storage device that stores the requested data and transferring
the requested data to the first information resource management device to store the requested
data on another of the storage devices which is coupled to the first information resource
management device.

29. (Currently Amended) An access history management device to be coupled to a
plurality of information resource management devices each of which is coupled to a storage
device and to a client computer, comprising:

~~the access history management device having~~ a collecting unit that collects access
history information from the plurality of the information resource management devices,
the information resource management device recording an access request for obtaining data
received from one of a client computer and other information resource management device as
the access history information, which further indicates a source of an access request, when

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the information resource management device sends data to the one of the client computer and the other information resource management device;

said collection unit further collecting user information for identifying a user who has sent an access request as a part of said access history, and

a determining unit that determines, on the basis of the source of an access request in the access history information, if data is requested by a user based on the respective user information from an a first information resource management device other than an information access management device which is coupled to a storage device storing the requested data, after an access request of the requested data is sent by the same user from a second one of the information resource management devices; and

said access history management device sends a sending unit that sends to the information access management device an instruction to copy the requested data based on the results of the determining unit, wherein

any of said information resource management devices that is coupled to a storage device that stores the requested data and receives the instruction to copy sends the requested data to said first information resource management device to store the requested data on another one of the storage devices which is coupled to the first information resource management device.

30. (Previously Presented) The access history management device according to claim 29, wherein said collecting unit collects access history information from the plurality of

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the information resource management devices at a predetermined timing that includes a timing being at predetermined intervals set in advance.

31. (Previously Presented) The access history management device according to claim 29, wherein said collecting unit collects access history information from the plurality of the information resource management devices at a predetermined timing that includes an arbitrary timing depending on said information resource management devices.

32. (Cancelled)

33. (Currently Amended) The access history management device according to claim 32, wherein said copy change-instruction is sent to by said instruction sending unit further includes information for identifying said second an information resource management device controlling said storage device having stored said one or more information resources before the change.

34. (Currently Amended) The access history management device according to claim 33, wherein said copy instruction is sent to any of said information resource management storage devices before the change- coupled to one of the storage devices that stores the data of the instruction to copy which has the shortest network distance from said first information resource management device a storage device after the change